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THE LAW OFFICES OF STEVEN A. SWERNOFSKY  
STEVEN A. SWERNOFSKY  
P.O. BOX 930013  
MOUNTAIN VIEW, CA 94040

UNITED STATES DEPARTMENT OF COMMERCE  
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RECORDATION DATE: 01/28/1999

REEL/FRAME: 9718/0032  
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:

MALCOLM, MICHAEL

DOC DATE: 11/10/1998

ASSIGNEE:

ZAENKE, ROBERT

DOC DATE: 11/18/1998

ASSIGNEE:

CACHEFLOW, INC.  
650 ALMANOR AVENUE  
SUNNYVALE, CALIFORNIA 94086

SERIAL NUMBER: 09093533  
PATENT NUMBER:

FILING DATE: 06/08/1998  
ISSUE DATE:

DOROTHY RILEY, PARALEGAL  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

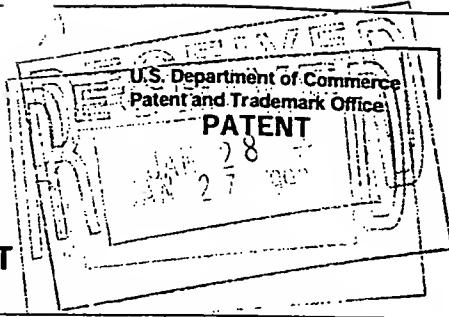
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Execution Date  
Month Day Year

Nov. 10, 1998

Name (line 1) MICHAEL MALCOLM

Name (line 2)

**Second Party**

Name (line 1) ROBERT ZARNKE

Name (line 2)

Execution Date  
Month Day Year

Nov. 18, 1998

**Receiving Party**

Mark if additional names of receiving parties attached

Name (line 1) CacheFlow, Inc.

Name (line 2)

Address (line 1) 650 Almanor Avenue

Address (line 2)

Address (line 3) Sunnyvale

City

CA

94086

State/Country

Zip Code

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Name Steven A. Swernofsky

Address (line 1) The Law Offices of Steven A. Swernofsky

Address (line 2) P.O.Box 390013

Address (line 3) Mountain View, CA 94040

Address (line 4) United States

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**Correspondent Name and Address**

Area Code and Telephone Number [650.947.0700]

Name Steven A. Swernofsky

Reg. No. 33,040

Address (line 1) The Law Offices of Steven A. Swernofsky

Address (line 2) P.O.Box 390013

Address (line 3) Mountain View, CA 94040

Address (line 4) United States

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# [5]

**Application Number(s) or Patent Number(s)**

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

**Patent Application Number(s)**

09/093,533

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month [ ] Day [ ] Year [ ]

**Patent Number(s)**

**Patent Cooperation Treaty (PCT)**

PCT [ ]

PCT [ ]

PCT [ ]

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Fee Amount for Properties Listed (37 CFR 3.41): \$ [40.00]

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Steven A. Swernofsky



Jan. 21, 1999

Name of Person Signing

Signature

Date

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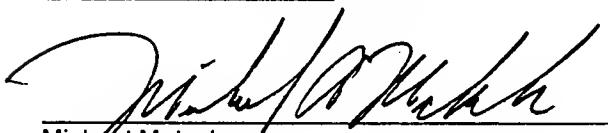
**ASSIGNMENT**

WHEREAS, we, Michael Malcolm, a citizen of the United States, residing at 521 Shelby Lane, Los Altos, California, and Robert Zarnke, a citizen of Canada, residing at 383 Parkgreen Place, Waterloo, Ontario N2L 5S6, Canada, have invented a "Network Object Cache Engine" for which we have executed application papers for a U.S. patent thereon, which was filed on June 8, 1998, Serial No. 09/093,533; and

WHEREAS, CacheFlow, Inc., corporation, having a place of business at 650 Almanor Ave., Sunnyvale, California 94086, is desirous of acquiring the exclusive right, title and interest in and to said invention and in and to the Letters Patent to be granted and issued therefor in the United States of America and its territories and possessions, and in all countries foreign thereto;

NOW, THEREFORE, for a valuable consideration, the receipt of which is hereby acknowledged, we, Michael Malcolm and Robert Zarnke, do sell, assign, transfer and set over unto the said CacheFlow, Inc., its successors and assigns, the full and exclusive right, title and interest in and to said invention, and in and to any and all letters patent to be granted and issued therefor, not only for, to and in the United States of America, its territories and possessions, but also for, to and in all other countries including all priority rights under the International Convention; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said CacheFlow, Inc., its successors and assigns, in accordance with this Assignment.

WITNESS OUR HAND at \_\_\_\_\_, this \_\_\_\_\_ day of  
\_\_\_\_\_, 1998.



Michael Malcolm



Robert Zarnke

STATE OF WASHINGTON )  
COUNTY OF \_\_\_\_\_ ) ss.  
                       )

On this \_\_\_\_\_ day of \_\_\_\_\_, 1998, before me, \_\_\_\_\_, a Notary Public, personally appeared Michael Malcolm and Robert Zarnke personally known to me (or proved to me on the basis of satisfactory evidence) to be the persons whose names are subscribed to the within instrument and acknowledged to me that they executed the same in their authorized capacities, and that by their signatures on the instrument the persons or the entity upon behalf of which the persons acted, executed the instrument.

WITNESS my hand and official seal.

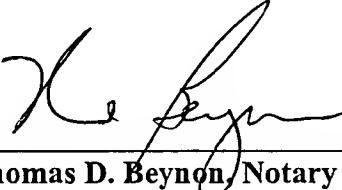
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NOTARY PUBLIC

**PROVINCE OF ONTARIO, CANADA )**  
**Regional Municipality of Waterloo )**  
                                      **)**

On this 18th day of November, 1998, before me, Thomas D. Beynon, a Notary Public, personally appeared Robert Zarnke personally known to me to be one of the persons whose name is subscribed in that certain Assignment made by Michael Malcolm and Robert Zarnke in favour of Cacheflow, Inc. being an Assignment of their interest in the application for a U.S. Patent filed on June 8, 1998, having Serial No. 09/093,533 and he has acknowledged to me that he has executed the same in his personal capacity and that by his signature on the instrument he has executed the said Assignment.

WITNESS my hand and official seal.



---

Thomas D. Beynon, Notary Public

# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

No. 5907

State of California

County of Santa Clara

On Nov. 10, 1998 before me, Desirée D. Baker, Notary Public

DATE

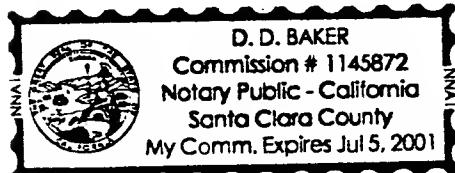
NAME, TITLE OF OFFICER - E.G., "JANE DOE, NOTARY PUBLIC"

personally appeared Michael Malcolm

NAME(S) OF SIGNER(S)

personally known to me - OR -  proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

D. D. Baker

SIGNATURE OF NOTARY

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- INDIVIDUAL  
 CORPORATE OFFICER

TITLE(S)

- PARTNER(S)       LIMITED  
                         GENERAL
- ATTORNEY-IN-FACT  
 TRUSTEE(S)  
 GUARDIAN/CONSERVATOR  
 OTHER: \_\_\_\_\_

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Assignment

TITLE OR TYPE OF DOCUMENT

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NUMBER OF PAGES

11-10-98

DATE OF DOCUMENT

Robert Zarnke

SIGNER(S) OTHER THAN NAMED ABOVE

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NAME OF PERSON(S) OR ENTITY(IES)

Self